

Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

- 1 1 (Currently Amended). A system for verifying authenticity of a
2 manufactured product, comprising:
3 an electronic tag attached to one of said product and product
4 packaging, said electronic tag comprising a memory for storing
5 authentication information for said product ~~in encrypted form~~; and
6 a reader ~~equipped with a decryption key~~ for reading said
7 authentication information from said electronic tag to verify that said
8 product is authentic based solely on the information contained in said
9 memory without revealing said authentication information.
- 1 2 (Original). A system for verifying the authenticity of a manufactured
2 product as recited in claim 1 wherein said electronic tag is a smart card.
- 1 3 (Original). A system for verifying, the authenticity of a manufactured
2 product as recited in claim 1 wherein said electronic tag is embedded into
3 one of said product and product packaging product.
- 1 4 (Original). A system for verifying the authenticity of a manufactured
2 product as recited in claim 1 wherein said authentication information is
3 encrypted using a private key and said reader decrypts said information
4 using a corresponding public key.
- 1 5 (Original). A system for verifying the authenticity of a manufactured
2 product as recited in claim 1 further comprising a point of sale machine
3 containing, said reader for authenticating said product in front of a
4 consumer prior to purchase of the product.

1 6 (Original). A system for verifying the authenticity of a manufactured
2 product as recited in claim 1 wherein said reader comprises means for
3 reading said electronic tag without physically contacting said electronic
4 tag.

1 7 (Original). A system for verifying the authenticity of a manufactured
2 product as recited in claim 1 wherein a zero-knowledge protocol is used to
3 make said authentication information resistant to duplication.

1 8 (Original). A system for verifying the authenticity of a manufactured
2 product as recited in claim 1 wherein said authentication information is
3 directed to a manufacturer of the product.

NO /

1 9 (Original). A system for verifying the authenticity of a manufactured
2 product as recited in claim 1 wherein said authentication information is
3 specific to the product.

1 10 (Original). A system for verifying the authenticity of a manufactured
2 product as recited in claim 1 further comprising a label having the
3 authentication information printed thereon to be verified against the
4 authentication information read by said reader.

1 11 (Currently Amended). A system for verifying the authenticity of a
2 manufactured product as recited in claim 9 wherein said authentication
3 information comprises one or more of product color, product shape,
4 product serial number, product weight, product routing, information, and
5 product chemical composition.

1 12 (Original). A system for verifying the authenticity of a manufactured

2 product as recited in claim 9 wherein said authentication information
3 comprises a graphic image of the product.

1 13 (Original). A system for verifying the authenticity of a manufactured
2 product as recited in claim 9 wherein said authentication information
3 comprises an ownership history of the product.

1 14 (Canceled). A system for verifying the authenticity of a manufactured
2 product as recited in claim 1 wherein said authentication information is
3 erased from said memory after being read.

1 ¹⁴
2 ~~15~~ (Original). A system for verifying the authenticity of a manufactured
3 product as recited in claim 1 wherein said authentication information
further comprises information for authenticating said electronic tag.

1 ¹⁵
2 ~~16~~ (Currently Amended). A method for verifying the authenticity of a
manufactured product, comprising the steps of:
3 generating authentication information for a manufactured product;
4 ~~encrypting said authentication information using a private key;~~
5 storing said ~~encrypted information~~ authentication information in
6 an electronic tag;
7 attaching said electronic tag to one of said manufactured product
8 and manufactured product packaging;
9 reading said ~~encrypted~~ authentication information from said
10 electronic tag; and
11 ~~decrypting said encrypted information using a public key~~
12 ~~corresponding to said private key to verify~~ verifying that said
13 manufactured product is authentic based solely on the information in said
14 electronic tag without revealing said authentication information.

1 17 (Original). A method for verifying the authenticity of a manufactured
2 product as recited in claim 16 further comprising the step of using a zero-
3 knowledge protocol to make said authentication information resistant to
4 duplication.

1 18 (Original). A method for verifying the authenticity of a manufactured
2 product as recited in claim 16 further comprising the step of attaching a
3 printed label to said product comprising said authentication information.

1 19 (Original). A method for verifying the authenticity of a manufactured
2 product as recited in claim 16 further comprising the step of erasing said
3 authentication information from said electronic tag after reading.

1 20 (Original). A method for verifying the authenticity of a manufactured
2 product as recited in claim 16 further comprising the step of recording an
3 ownership history of said product in said electronic tag.

1 21 (Currently Amended). A method for detecting manufactured products in
2 a parallel market, comprising the steps of:

3 generating authentication information for a manufactured product
4 including routing information for the product;

5 ~~encrypting said authentication information using a private key;~~
6 storing said encrypted authentication information in an electronic
7 tag;

8 attaching said electronic tag to one of the manufactured product
9 and manufactured product packaging;

10 reading said encrypted authentication information from said
11 electronic tag at a point of sale; and

12 ~~decrypting said encrypted information using a public key~~
13 corresponding to said private key to verify verifying said routing

14 information matches routing information of said point of sale to determine
15 if said manufactured product is sold in a parallel market based solely on
16 the information contained in said electronic tag.

16
1 ~~22~~ (New). A method for verifying the authenticity of a manufactured
2 product as recited in claim ~~16~~¹⁵, further comprising the steps of:
3 encrypting said authentication information using a private key prior
4 to storing the authentication information in said electronic tag; and
5 decrypting the encrypted authentication information read from said
6 electronic tag prior to verifying that said maufactured product is authentic.

16
1 ~~23~~ (New). A method for detecting manufactured products in a parallel
2 market as recited in claim 21, further comprising the steps of:
3 encrypting said authentication information using a private key prior
4 to storing the authentication information in said electronic tag; and
5 decrypting the encrypted authentication information read from said
6 electronic tag prior to verifying that said routing information matches
7 routing information of said point of sale.